

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 7-80) PATENT AND TRADEMARK OFFICE  LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)	ATTORNEY DOCKET NO.: 01173.0001U3	SERIAL NO. 09/994,311 CONFIRMATION NO. 9570
	APPLICANT: Kaufman <i>et al.</i>	
	FILING DATE: November 26, 2001	GROUP: 1656

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	B1	6,403,319	June 11, 2002	Lizardi <i>et al.</i>			
	B2	6,261,782	July 17, 2001	Lizardi <i>et al.</i>			

FOREIGN PATENT DOCUMENTS


OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)


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Substitute for form 1449A/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/544,713 <i>09/294,311</i>
		Filing Date	April 6, 2000 <i>November 26, 2001</i>
		First Named Inventor	Paul M. Lizardi <i>Kaufman et al</i>
		Group Art Unit	1843 <i>1656</i>
		Examiner Name	
Sheet 1 of 14	Attorney Docket Number	YU-126 01173.0001 US	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	US Patent Document	Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
<i>RA</i>		5,654,413	Brenner	08-05-1997	<del>CL/Sub</del> <b>RECEIVED</b> MAR 20 2002 TECH CENTER 1600/2900
		5,429,807	Matson, et al.	07-04-1995	
		5,599,695	Pease, et al.	02-04-1997	
		5,607,924	Magda, et al.	03-04-1997	
		5,736,330	Fulton	04-07-1998	
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		5,871,697	Rothberg, et al.	02-16-1999	
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<i>RA</i>		6,023,540	Walt, et al.	02-08-2000	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office. <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			
<i>RA</i>		WO 97/19193 A2	Yale University	05-29-1997	<del>CL/Sub</del>
		WO 98/50782 A2	Trustees of Tufts College	05-05-1998	
		WO 99/19515 A1	Luminex Corp.	04-22-1999	
		WO 99/28505 A1	Curagen Corp.	06-10-1999	
		WO 99/37814 A1	Luminex Corp.	07-29-1999	
		WO 99/64847 A1	Welch	12-16-1999	
		WO 00/04036 A1	Duke University	01-27-2000	
<i>RA</i>		WO 00/08443 A1	Imperial Cancer Research Technology Limited	02-17-2000	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	08/544,712 09/994,311
		Filing Date	April 6, 2000 November 26, 2001
		First Named Inventor	Paul M. Lizardi Kufner et al
		Group Art Unit	1645 1656
		Examiner Name	
Sheet 2 of 14	Attorney Docket Number	YU 120-01173-0001V3	

OTHER ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
9/2/01		ADAMS, et al., "Complementary DNA sequencing: expressed sequence tags and human genome project," <i>Science</i> 252(5013):1651-56 (1991).	
		ADAMS, et al., "Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence," <i>Nature</i> 377:3-174 (1995).	
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		BIRD, "DNA methylation de novo," <i>Science</i> 286(5448):2287-8 (1999).	
		BIRKENMEYER & MUSHAHWAR, "DNA probe amplification methods," <i>J. Virol. Methods</i> 35(2):117-26 (1991).	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	09/544,743- <b>09/994,311</b>	
			Filing Date	April 6, 2000 <b>November 26, 2001</b>	
			First Named Inventor	Paul M. Lizardi <b>Fautner et al</b>	
			Group Art Unit	4643- <b>1656</b>	
			Examiner Name		
Sheet	3	of	14	Attorney Docket Number	YU 126 <b>01173.0001U3</b>

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		BRESLAUER, et al., "Predicting DNA duplex stability from the base sequence," <i>Proc. Natl. Acad. Sci. U. S. A.</i> 83(11):3746-50 (1986).	
		CARMI, et al., "Cleaving DNA with DNA," <i>Proc. Natl. Acad. Sci. U. S. A.</i> 95(5):2233-7 (1998).	
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		DE HAAS, et al., "Platinum porphyrins as phosphorescent label for time-resolved microscopy," <i>J. Histochem. Cytochem.</i> 45(9):1279-92 (1997).	
		DIATCHENKO, et al, "Suppression subtractive hybridization: a method for generating differentially regulated or tissue-specific cDNA probes and libraries," <i>Proc. Natl. Acad. Sci. U. S. A.</i> 93(12):6025-30 (1996).	

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		First Named Inventor	Paul M. Lizardi Kautner et al
		Group Art Unit	1043 1656
		Examiner Name	
Sheet 4 of 14	Attorney Docket Number	YU 126 01173.0001U3	

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9/24		EDMAN, et al., "Identification of ErbB3-stimulated genes using modified representational difference analysis," <i>Biochem. J.</i> 323 ( Pt 1):113-8 (1997).	
		ELLIS, et al., "Chemical cleavage of mismatch: a new look at an established method," <i>Hum. Mutat.</i> 11(5):345-53 (1998).	
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9/24		HABRAKEN, et al., "Binding of insertion/deletion DNA mismatches by the heterodimer of yeast mismatch repair proteins MSH2 and MSH3," <i>Curr. Biol.</i> 6(9):1185-7 (1996).	

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		Filing Date	April 6, 2000 November 26, 2001
		First Named Inventor	Paul M. Lizardi-Kaufman et al.
		Group Art Unit	4643 1656
		Examiner Name	
Sheet 5 of 14	Attorney Docket Number	YU 126- 01173.000103	

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9/28		HANVEY, et al., "Antisense and antigene properties of peptide nucleic acids," <i>Science</i> 258(5087):1481-5 (1992).	
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		HUBANK & SCHATZ, "Identifying differences in mRNA expression by representational difference analysis of cDNA," <i>Nucleic Acids Res.</i> 22(25):5640-8 (1994).	
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RPA		KARGER, et al., "Digital chemiluminescence imaging of DNA sequencing blots using a charge-coupled device camera," <i>Nucleic Acids Res.</i> 20(24):6657-65 (1992)	
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	KRICKA, "Chemiluminescent and bioluminescent techniques," <i>Clin. Chem.</i> 37(9):1472-81 (1991).		
	KRICKA, "Selected strategies for improving sensitivity and reliability of immunoassays," <i>Clin. Chem.</i> 40(3):347-57 (1994).		
RPA		KUMKE, et al., "Temperature and quenching studies of fluorescence polarization detection of DNA hybridization," <i>Anal. Chem.</i> 69(3):500-6 (1997).	
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		Group Art Unit	1643-1656
		Examiner Name	
Sheet 7 of 14	Attorney Docket Number	YU 126 06173.000103	

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12/24		LANDEGREN, "Molecular mechanics of nucleic acid sequence amplification," <i>Trends Genetics</i> 9:199-202 (1993).	
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		Filing Date	April 6, 2000 November 26, 2001
		First Named Inventor	Paul M. Lizardi Kaufman et al
		Group Art Unit	1642-1636
		Examiner Name	
Sheet 8 of 14	Attorney Docket Number	YU-126-01173.0001 v3	

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[Signature]	LU & HSU,	"Detection of single DNA base mutations with mismatch repair enzymes," <i>Genomics</i> 14(2):249-55 (1992).	
	MAEHIRA, et al.,	"Alterations of protein kinase C, 8-hydroxydeoxyguanosine, and K-ras oncogene in rat lungs exposed to passive smoking," <i>Clin. Chim. Acta.</i> 289(1-2):133-44 (1999).	
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		Filing Date	April 6, 2000 November 26, 2001
		First Named Inventor	Paul M. Lizardi Keitman et al
		Group Art Unit	4643 7656
		Examiner Name	
Sheet 9 of 14	Attorney Docket Number	YU 126 01173.000103	

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7/24		NGUYEN, et al., "Modification of DNA duplexes to smooth their thermal stability independently of their base content for DNA sequencing by hybridization," <i>Nucleic Acids Res.</i> 25(15):3059-3065 (1997).	
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		Filing Date	April 6, 2000- <b>November 26, 2001</b>
		First Named Inventor	Paul M. Lizardi- <b>Kutman et al.</b>
		Group Art Unit	4643- <b>1656</b>
		Examiner Name	
Sheet 10 of 14	Attorney Docket Number	YU 126 <b>01173.000103</b>	

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<b>92H</b>		OLEJNIK, et al., "Photocleavable biotin phosphoramidite for 5'-end-labeling, affinity purification and phosphorylation of synthetic oligonucleotides," <i>Nucleic Acids Res.</i> 24:361-66 (1996).	
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<b>92H</b>		RABINOWICZ, et al., "Differential methylation of genes and retrotransposons facilitates shotgun sequencing of the maize genome," <i>Nat. Genet.</i> 23:305-308 (1999).	

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		Filing Date	April 6, 2000 <b>November 26, 2001</b>
		First Named Inventor	Paul M. Lizard <b>Kutman et al</b>
		Group Art Unit	1643 <b>1656</b>
		Examiner Name	
		Attorney Docket Number	<b>YU 126-01123.0001 U3</b>
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<b>92A</b>		REN, et al., "Chemical mismatch cleavage combined with capillary electrophoresis: detection of mutations exon 8 of the cystathionine beta-synthase gene," <i>Clin. Chem.</i> 44:2108-14 (1998).	
		RODA, et al., "Chemiluminescent imaging of enzyme-labeled probes using an optical microscope-videocamera luminograph," <i>Anal. Biochem.</i> 257(1):53-62 (1998).	
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		STEVENSON, et al., "Synchronous luminescence: a new detection technique for multiple fluorescent probes used for DNA sequencing," <i>Biotechniques</i> 16(6):1104-11 (1994).	
<b>92A</b>		STIMPSON, et al., "Real-time detection of DNA hybridization and melting on oligonucleotide arrays by using optical wave guides," <i>Proc. Natl. Acad. Sci. USA</i> 92(14):6379-6383 (1995).	

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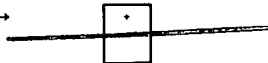
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		Filing Date	April 6, 2000 November 26, 2001
		First Named Inventor	Paul M. Lisardi Bartman et al
		Group Art Unit	4643 1656
		Examiner Name	
Sheet 12 of 14	Attorney Docket Number	YU 126 01173.000103	

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9244		SWAROOP, et al., "A simple and efficient cDNA library subtraction procedure: isolation of human retina-specific cDNA clones," <i>Nucleic Acids Res.</i> 19(8):1954 (1991).	
		SYVANEN, et al., "Fast quantification of nucleic acid hybrids by affinity-based hybrid collection," <i>Nucleic Acids Res.</i> 14(12):5037-48 (1986).	
		SZYBALSKI, "Universal restriction endonucleases: designing novel cleavage specificities by combining adapter oligodeoxynucleotide and enzyme moieties," <i>Gene</i> 40(2-3):169-73 (1985).	
		TAYLOR, <u>Protein immobilization: fundamentals and applications</u> (M. Dekker, New York, 1991).	
		TIBBE, et al., "Optical tracking and detection of immunomagnetically selected and aligned cells," <i>Nat. Biotechnol.</i> 17(12):1210-3 (1999).	
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		VELCULESCU, et al., "Serial analysis of gene expression," <i>Science</i> . 270(5235):484-7 (1995).	
		VENEZIA & O'HARA, "Rapid motif compliance scoring with match weight sets," <i>Comput. Appl. Biosci.</i> 9(1):65-9 (1993).	
9244		VO-DINH, et al., "Surface-enhanced Raman gene probes," <i>Anal. Chem.</i> 66(20):3379-83 (1994).	

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Application Number

09/544,743

09/994,311

Filing Date

April 6, 2000 November 26, 2001

First Named Inventor

Paul M. Lizardi, Paul M. Lizardi et al

Group Art Unit

4643 1656

Examiner Name

Attorney Docket Number

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Sheet 13 of 14

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RAH		VOLKERS, et al., "Microwave label detection technique for DNA in situ hybridization," <i>Eur. J. Morphol.</i> 29(1):59-62 (1991).	
		WADA, et al., "Representational difference analysis of cDNA of genes expressed in embryonic kidney," <i>Kidney Int.</i> 51:1629-1638 (1997).	
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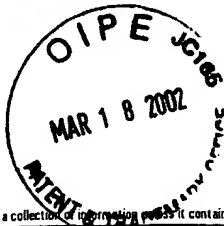
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<p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p>				Complete if Known	
				Application Number	69/544,713 09/944,311
				Filing Date	April 6, 2000 - November 26, 2000
				First Named Inventor	Paul M. Lizardi - Bartman 'et al'
				Group Art Unit	1643 - 1656
				Examiner Name	
Sheet	14	of	14	Attorney Docket Number	YU 126 - 01173.0001/03

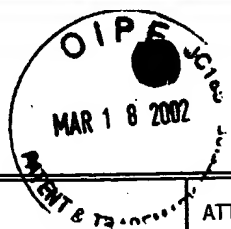
OTHER ART -- NON PATENT LITERATURE DOCUMENTS			T <sup>2</sup>
Examiner's Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	
		YOUIL, et al., "Detection of 81 of 81 known mouse beta-globin promoter mutations with T4 endonuclease VII--the EMC method," <i>Genomics</i> 32:431-435 (1996).	
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APPLICANT: Kaufman et al.

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FILING DATE: ~~August 11, 2000~~ November 26, 2001

GROUP: ~~1656~~ 1656

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EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
9224	AA	6,023,540	02/08/00	Walt et al.	385	12	
	AB	6,013,188	01/11/00	Terstappen and Liberti	210	695	
	AC	5,993,665	11/30/99	Terstappen and Liberti	210	695	
	AD	5,599,695	02/04/97	Pease et al.	435	91.1	
	AE	5,985,153	11/16/99	Dolan et al.	210	695	
	AF	5,968,745	10/19/99	Thorp et al.	435	6	
	AG	5,871,928	02/16/99	Fodor et al.	435	6	
	AH	5,871,918	02/16/99	Thorp et al.	435	6	
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	AJ	5,854,033	12/29/98	Lizardi	435	91.2	
	AK	5,736,330	04/07/98	Fulton	435	6	
	AL	5,654,413	08/05/97	Brenner	536	22.1	
	AM	5,607,924	03/04/97	Magda et al.	514	441	
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	AQ	WO 99/64847 A1	12/16/99	Xantho. Inc.	G01N	27/26	
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	AS	WO 99/28505 A1	06/10/99	Curagen Corp.	C12Q	1/68	
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	AU	WO 98/50782 A2	11/12/98	Trustees of Tufts College	G01N	21/77	
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BN	Dayhoff et al., "A model of evolutionary changes in proteins" in Atlas of Protein Sequence and Structure, M.O. Dayhoff, Editor - 1978, National Biomedical Research Foundation: Washington, D.C.
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BQ	Edman et al., "Identification of ErbB3-stimulated genes using modified representational difference analysis," <i>Biochem. J.</i> 323 ( Pt 1):113-8 (1997)
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CB	Hatada et al., "A genomic scanning method for higher organisms using restriction sites as landmarks," <i>Proc. Natl. Acad. Sci. USA</i> 88:9523-27 (1991)
CC	Hedrick et al., "Isolation of cDNA clones encoding T cell-specific membrane-associated proteins," <i>Nature</i> 308(5955):149-53 (1984)
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CF	Hoy et al., "Bromodeoxyuridine/DNA analysis of replication in CHO cells after exposure to UV light," <i>Mutat. Res.</i> 290(2):217-30 (1993)
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CH	Hubank and Schatz, "Identifying differences in mRNA expression by representational difference analysis of cDNA," <i>Nucleic Acids Res.</i> 22(25):5640-8 (1994)
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CJ	Johnstone and Thorpe, <i>Immunocytochemistry In Practice</i> (Blackwell Scientific Publications, Oxford, England, 1987) pages 209-216 and 241-242
CK	Karger et al., "Digital chemiluminescence imaging of DNA sequencing blots using a charge-coupled device camera," <i>Nucleic Acids Res.</i> 20(24):6657-65 (1992)
CL	Kerkhof, "A Comparison of Substrates for Quantifying the Signal from a Nonradiolabeled DNA Probe," <i>Analytical Biochemistry</i> 205:359-364 (1992)
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CP	Kortenkamp, et al., "Genotypic selection of mutated DNA sequences using mismatch cleavage analysis, a possible basis for novel mutation assays," <i>Mutagenesis</i> 12:335-8 (1997)
CQ	Kozian and Kirschbaum, "Comparative gene-expression analysis," <i>Trends Biotechnol.</i> 17(2):73-8 (1999)
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CY	Liang and Pardee, "Differential display of eukaryotic messenger RNA by means of the polymerase chain reaction," <i>Science</i> 257(5072):967-71 (1992)

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DA	Lipshutz. "Likelihood DNA sequencing by hybridization." <i>J. Biornol. Struct. Dyn.</i> 11 (3):637-53 (1993).
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DO	Nikiforov et al.. "Genetic Bit Analysis: a solid phase method for typing single nucleotide polymorphisms." <i>Nucleic Acids Res.</i> 22(20):4167-75 (1994)
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	DY	Paciotti et al.. "Mec1p is essential for phosphorylation of the yeast DNA damage checkpoint protein Ddc1p, which physically interacts with Mec3p." <i>EMBO J.</i> 17(14):4199-209 (1998)
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	EC	Podhajski and Szybalski. "Conversion of the <i>FokI</i> endonuclease to a universal restriction enzyme: cleavage of phage M13mp7 DNA at predetermined sites." <i>Gene</i> 40(2-3):175-82 (1985) [published erratum appears in <i>Gene</i> 43(3):325 (1985)]
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EY	Veniezia and O'Hara. "Rapid motif compliance scoring with match weight sets." <i>Comput. Appl. Biosci.</i> 9(1):65-9 (1993)
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ATTORNEY DOCKET NO.: 01173.0001U1 01173.0001U3 SERIAL NO. 091637751  
09/994,317

APPLICANT: Kaufman et al.

FILING DATE: <del>August 11, 2000</del> November 26, 2001	GROUP: 1656
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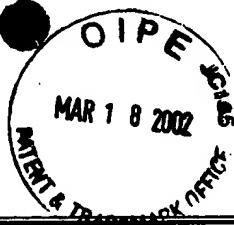
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